

**ENZYME ELECTRODE AND ITS MANUFACTURE**

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**Abstract of JP55010583**

**PURPOSE:** To secure a quick and simple measurement of the substrate density as well as to realize the continuous and repetitive use of the enzyme electrode by securing the specific 3-lamination structure and thus giving the electrochemical activity to the substrate which suffers the peculiar catalyst function of the enzyme. **CONSTITUTION:** The electron conducting material such as the graphite powder is mixed well with the insoluble redox compound such as bromanil. Then a small amount of such mixture is unified with the electron conducting material through, for example, the press formation. In the moldings thus composed of 1st layer 1 made of the electron conducting material and 2nd layer 2 made of the electron conducting material and the insoluble redox compound, the oxidoreductase like glucose oxidase is fixed on layer 2 via glutaric aldehyde, and then 3rd layer 3 containing enzyme is formed. In such way, the enzyme electrode can be made with the minimum necessary amount of enzyme and the insoluble redox compound.

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